USEFUL FOR UNIVERSITY EXAMS, GATE, NET AND OTHER CS EXAMS

TYPES OF DATABASE USERS

DATABASE MANAGEMENT SYSTEM

PROPER NOTES IN PPT FORM

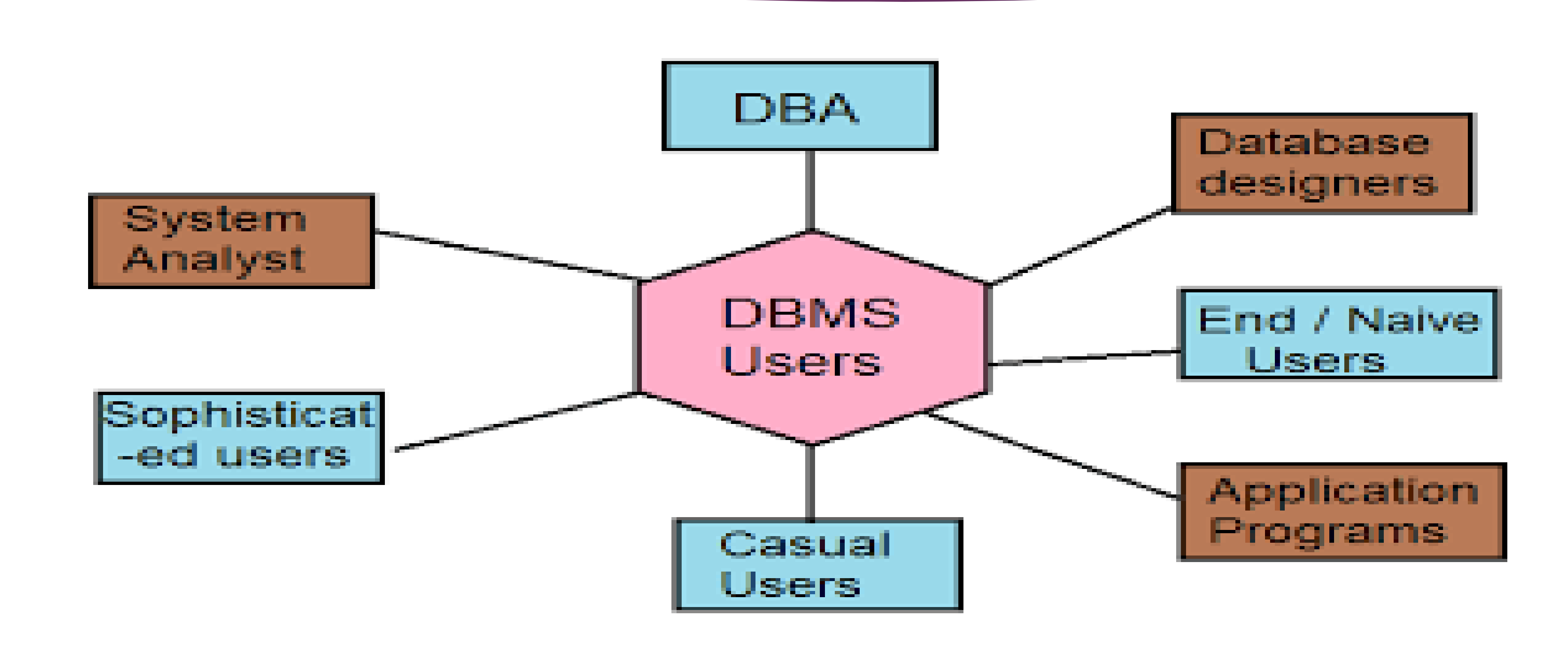
PART -3



DATABASE USERS

- Any person who uses the database and takes benefit form it is known as Database Users.
- Users interact with database according to their requirement and uses.
- They can programmers, scientists, engineers, business person or an employee.
- The users can be classified into various categories depending upon their interaction and expertise of DBMS.
- There can be different users in a database, each with different level of privileges and permissions.

TYPES OF DATABASE USERS



1. DATABASE ADMINISTRATOR

- DBA is the database administrator, who controls and manages the database system.
- It can be a single person or a team.
- Every person who wants to access the database has to first take the permission from the DBA.
- DBA is responsible for ensuring data integrity, security of data, optimizing database performance and backing up and restoring the database.
- DBA has full control of the data stored in the database
- It has full control of those application programs which will access the database.
- DBA has all the privileges of the DBMS, so he can grant or revoke the privileges from the other database users.

RESPONSIBLITIES OF DBA

DBA is responsible for:

- Defining the Schema
- Grant and Revoke of access rights
- Deciding the schema structure at all the levels
- Managing database Users and Security
- Maintenance of Database
- Hardware and Software installation

2. DATABASE DESIGNER

- Database designers design the appropriate structure for the database.
- They are a specialized type of database user responsible for creating the conceptual and logical design of a database.
- They work closely with the DBA and application programmers to ensure the designing is what the DBA wants and it is feasible for the programmer to work on.
- Database designers define the data requirements for a database, create ER diagrams(Conceptual level model) and ensure optimal data structure for the database.

3. SYSTEM ANALYST

- The System Analyst is responsible for analyzing the system so that the efficiency of the database can be improved.
- They work closely with the other database users such as DBAs and developers so that they can understand the requirement and their needs.
- System analysts keep up to date with the latest technologies and recommend solutions that can improve performance of the database.
- They help to resolve issues that arise with the database, such as performance problems or data integrity issues.

4. APPLICATION DEVELOPER

- Application programmers are the computer professionals who write application program.
- They develop applications that help other users to interact t with the database.
- They are responsible for creating a GUI apps for other naïve users.
- They need to have excellent knowledge o database and queries.
- They may specify certain modifications while coding for databases
- These programmers develop programs in C/ C++, Java, PHP, Python etc.

5. NAÏVE USERS

- They are also known as unsophisticated users, who have no knowledge of the database.
- They are like the layman, who has a very little bit knowledge of the database.
- They are the end users who work through the menu driven applications.
- These uses interact with the database only with the help of the application interface.
- They are using the application without any detailed functioning knowledge.
- They get their desired result by working on the app.
- For eg: Railways ticket booking users are naïve users

6. SPECIALIZED USERS

- These users write a specialized queries in shell programming or batch programming to access the database.
- For eg in bank a cashier may write some queries related to his work.

7. Sophisticated Users

- These users normally do not use the application programs to access the database.
- They can directly interact with the database by using SQL queries.
- For eg: technicians know certain commands and they directly use those commands to access the database.

8. GUEST USER

- A guest user s a user who has limited access to the database, typically for read only purposes.
- This type of user may be used by external organizations or individuals who need access to a subset of the data in the database.

THANK YOU

